

Chapter 20 - PARTICULATE EMISSIONS; LIMITATIONS AND STANDARDS (EXCEPTIONS DUE TO BREAKDOWNS OR SCHEDULED MAINTENANCE: SEE CHAPTER 35)

001 No person shall cause, suffer, allow or permit the emission of particulates from any processing machine, equipment, device or other articles, or combination thereof, except indirect heating equipment and incinerators, in excess of the amounts allowed in Table 20-1 during any one hour.

002 No person shall cause or allow particulate matter caused by the combustion of fuel to be emitted from any stack or chimney into the outdoor atmosphere in excess of the hourly rate set forth in the following table:

Total Heat Input in Million British Thermal Units Per Hour	Maximum Allowable Emissions of Particulate Matter in Pounds per Million British Thermal Units
10 or less	0.60
10,000 or more	0.12

003 The allowable emission rate for equipment having immediate heat input between 10 (10^6) BTU and 10,000 (10^6) BTU may be determined by the formula:

$$A = \frac{1.026}{I^{.233}}$$

A = The allowable emission rate in Lb/ 10^6 BTU

I = The total heat input in 10^6 BTU/Hr

004 For the purpose of these regulations, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack, or the equipment manufacturer's or designer's guaranteed maximum input, whichever is greater. The total heat input of all fuel burning units at a plant or on a premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

005 No person shall cause or allow emissions, from any source, which are of an opacity equal to or greater than twenty percent (20%), as evaluated by an EPA-approved method, or recorded by a continuous opacity monitoring system operated and maintained pursuant to 40 CFR Part 60 Appendix B except as provided for in section 006 of this chapter.

006 Exceptions:

006.01 No person shall cause or allow emissions from any existing teepee waste wood burner which are of an opacity equal to or greater than forty percent (40%).

006.02 No person shall cause or allow emissions from any existing alfalfa dehydration plant dryer which are of an opacity equal to or greater than thirty percent (30%).

006.03 Emission sources subject to monitoring requirements of Chapter 34, 005 of this Title are allowed to have one six minute period per hour of not more

than 27 percent opacity.

006.04 Furnaces owned and operated by a law enforcement agency to dispose of ammunition, fireworks or similar flammable or explosive materials are exempt from the provisions of this Chapter solely while being used for this purpose.

007 All sources shall comply with section 005 of this Chapter unless a more stringent opacity standard applies as specified elsewhere in this Title.

Table 20-1

Process Weight Rate Lb/Hr	Rate of Emission Tons/Hr	Rate of Emission Lb/Hr	Process Weight Rate Lb/Hr	Rate of Emission Tons/Hr	Rate of Emission Lb/Hr
100	0.05	0.551	16,000	8.000	16.5
200	0.10	0.877	18,000	9.00	17.9
400	0.20	1.40	20,000	10.	19.2
600	0.30	1.83	30,000	15.	25.2
800	0.40	2.22	40,000	20.	30.5
1,000	0.50	2.58	50,000	25.	35.4
1,500	0.75	3.38	60,000	30.	40.0
2,000	1.00	4.10	70,000	35.	41.3
2,500	1.25	4.76	80,000	40.	42.5
3,000	1.50	5.38	90,000	45.	43.6
3,500	1.75	5.96	100,000	50.	44.6
4,000	2.00	6.52	120,000	60.	46.3
5,000	2.50	7.58	140,000	70.	47.8
6,000	3.00	8.56	160,000	80.	49.0
7,000	3.50	9.49	200,000	100.	51.2
8,000	4.00	10.4	1,000,000	500.	69.0
9,000	4.50	11.2	2,000,000	1,000.	77.6
10,000	5.00	12.0	6,000,000	3,000.	92.7
12,000	6.00	13.6			

Interpolation of the data in this table for process weight rates up to 60,000 Lb/Hr shall be accomplished by use of the equation $E = 4.10 P^{.67}$ and interpolation and extrapolation of the data for process weight rates in excess of 60,000 Lb/Hr shall be accomplished by use of the equation $E = 55.0 P^{.11-40}$, where E = rate of emission in Lb/Hr and P = process weight rate in Tons/Hr. If two or more units discharge into a single stack, the allowable emission rate will be determined by the sum of all process weights discharging into the single stack.

Enabling Legislation: Neb. Rev. Stat. §§81-1504(1)(2); 81-1505(12)

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